

# SAFETY DATA SHEET

## BELZONA® 1221 (SUPER E-METAL) BASE

Infosafe No.: LTS7G  
ISSUED Date : 19/04/2021  
ISSUED by: REZITECH SERVICES

### 1. Identification

**GHS Product Identifier**

BELZONA® 1221 (SUPER E-METAL) BASE

**Product Code**

SN2442

**Company name**

REZITECH SERVICES

**Address**

109 - 111 Wedgewood Road, Hallam  
VICTORIA 3803 AUSTRALIA

**Telephone/Fax Number**

Tel: +61 3 8720 8600

**Emergency phone number**

Australia: Steven Hunt +61 404 843 835, New Zealand: National Poisons Centre 0800 764 766

**Recommended use of the chemical and restrictions on use**

Application: A rapidly solidifying repair system for emergency and permanent bonding, repairing and rebuilding of all ferrous and non-ferrous metals. For industrial use only.

Uses advised against: The product should not be used for purposes other than those recommended in the appropriate Instructions For Use (IFU) leaflet.

**Other Names**

Name	Product Code
BELZONA® 1221 (SUPER E-METAL) BASE	SN2442
BELZONA® 1221 (SUPER E-METAL) BASE	SN2442

### 2. Hazard Identification

**GHS classification of the substance/mixture**

Physical hazards: Not Classified

Health hazards: Skin Sens. 1 - H317 STOT RE 2 - H373

Environmental hazards: Aquatic Chronic 2 - H411

Reference: The full text for all hazard statements is displayed in Section 16.

**Signal Word (s)**

WARNING

**Hazard Statement (s)**

H317 May cause an allergic skin reaction.

H373 May cause damage to organs (Liver) through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

**Pictogram (s)**

Exclamation mark, Health hazard, Environment

**Precautionary statement – Prevention**

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing and eye protection.

**Precautionary statement – Response**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**Precautionary statement – Disposal**

P501 Dispose of contents/ container in accordance with national regulations.

**Other Information**

Contains: N,N-DIALKYLAMINO-DIPHENYLMETHANE

Other hazards:

HSNO classification: Not applicable.

**3. Composition/information on ingredients****Ingredients**

Name	CAS	Proportion
N,N-DIALKYLAMINO-DIPHENYLMETHANE	5285-60-9	10-30 %
1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol	102-60-3	5-10 %
POLYETHER POLYOL	25322-69-4	1-5 %

**Other Information**

Mixtures:

N,N-DIALKYLAMINO-DIPHENYLMETHANE

M factor (Chronic) = 1

Classification:

Acute Tox. 4 - H302

Skin Sens. 1 - H317

STOT RE 2 - H373

Aquatic Chronic 1 - H410

1,1',1'',1'''-ETHYLENEDINITRILOTETRAPROPAN-2-OL

Classification:

Eye Irrit. 2A - H319

POLYETHER POLYOL

Classification:

Acute Tox. 4 - H302

The full text for all hazard statements is displayed in Section 16.

**4. First-aid measures****First Aid Measures**

General information: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

### Inhalation

Remove to fresh air. Keep the patient warm and at rest. Give nothing by mouth.

### Ingestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. Rinse mouth with plenty of water. Do NOT induce vomiting.

### Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners. If irritation or inflammation persists, seek medical attention.

### Eye contact

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical advice.

### Indication of immediate medical attention and special treatment needed if necessary

Notes for the doctor: None.

### Most important symptoms/effects, acute and delayed

Ingestion: May cause stomach pain or vomiting.

Skin contact: May cause an allergic skin reaction.

Eye contact: May irritate eyes.

## 5. Fire-fighting measures

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### Suitable Extinguishing Media

Use: sand, alcohol resistant foam, carbon dioxide, chemical powder, or water fog for larger fires.

### Unsuitable Extinguishing Media

Do NOT use water jet.

### Specific Hazards Arising From The Chemical

When heated and in case of fire, harmful vapours/gases may be formed.

### Hazchem Code

22

### Decomposition Temperature

Not available.

### Precautions in connection with Fire

Protective actions during firefighting: Fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or watercourses.

## 6. Accidental release measures

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### Methods And Materials For Containment And Cleaning Up

Methods for cleaning up: Scrape the majority of the product into a suitable labelled container. Cover the spill area with sand or other suitable inert material and sweep up into the container. Clean surfaces down with a water and detergent mixture. Do not allow spilled product or the associated washings to enter surface water drains or watercourses.

### Personal Precautions

Exclude non-essential personnel. Do not get on skin or in eyes.

### Environmental Precautions

Prevent product entering drains or sewers. If the product enters drains or sewers in large quantities, the local Water Company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the appropriate National regulating agency.

### Other Information

Reference to other sections: For personal protection, see Section 8. For waste disposal, see section 13.

## 7. Handling and storage

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### Precautions for Safe Handling

Usage precautions: Vapours may collect in the container headspace during transit or prolonged storage. Avoid the inhalation of vapour when opening the container. Where possible open containers and mix components in a well ventilated place away from the application area. Avoid skin and eye contact. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. Always keep in containers made of the same material as the supply container. Good housekeeping methods and regular safe removal of waste materials should be observed. FIRE/EXPLOSION This product is combustible. Exclude sources of heat, sparks and open flame. Ensure emergency equipment (for fires, spills, leaks, etc.) is readily available.

Advice on general occupational hygiene: Wash at the end of each work shift and before eating, smoking and using the toilet. Ensure eye wash facilities (fountain, bottle, vials, etc.) are readily available. Do not put contaminated articles or equipment e.g. spatulas, applicators, brushes, cloths etc., into pockets. Where necessary, contaminated work clothing and shoes should be removed to prevent cross contamination of surfaces and the risk of inadvertent skin contact and ingestion.

### Conditions for safe storage, including any incompatibilities

Storage precautions: Observe the label precautions. Store between 5 °C and 30 °C unless otherwise stated in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Store separately from oxidising agents and strongly alkaline and strongly acidic materials. ENVIRONMENTAL STORAGE PRECAUTIONS Spillage, incorrect storage of chemicals or waste materials or unsuitable disposal activities can result in pollutants seeping through the soil, causing serious harm to groundwater- which is a vital source of drinking water. All wastes, especially liquid wastes, must be securely stored on site in designated areas that are isolated from surface drains and banded to contain any spillages.

### Other Information

Specific end use(s): Application by plastic applicator or spatula provided. Mix with Solidifier component before use. Please refer to the relevant Belzona® Instructions For Use for further information.

## 8. Exposure controls/personal protection

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### Occupational exposure limit values

No exposure limits known for ingredient(s).

### Appropriate engineering controls

Use in well ventilated areas or provide adequate mechanical ventilation.

### Respiratory Protection

Respiratory protection is not normally required, but the hazards of the Solidifier component should be considered for mixing and application purposes.

### Eye Protection

It is recommended that eye protection, for example safety spectacles or goggles are worn at all times during the handling and use of this material. Eye protection should be selected in accordance with EN 166 Personal eye protection. During subsequent machining, grinding, abrasion or removal of this product appropriate eye protection should be selected according to the type of tools or equipment used.

### Hand Protection

Hand protection should be selected in accordance with EN 374 Protective gloves against chemicals. The breakthrough time of the gloves selected should exceed the expected use period. Where this is not possible gloves should be changed in good time, and in any case before the breakthrough time is exceeded. If any doubt exists, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred. SPECIFIC RECOMMENDATIONS Wear protective gloves made of the following material: Nitrile rubber. Medium-heavy weight gauntlet type gloves that provide wrist protection are suitable.

### Body Protection

STANDARD APPLICATIONS Synthetic polyethylene coveralls such as the Tyvek PROTECH® or equivalent coveralls manufactured to EN 13034 Type 6, Protective clothing against liquid chemicals. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. APPLICATION OF SMALL QUANTITIES Cotton overalls are normally suitable.

## 9. Physical and chemical properties

Properties	Description	Properties	Description
Form	Paste	Appearance	Paste.
Colour	Dark grey.	Odour	Amine.
Decomposition Temperature	Not available.	Melting Point	Not available.
Solubility	Slightly soluble in water.	pH	Alkaline.
Vapour Pressure	< 0.13 kPa @ 20°C/68°F	Vapour Density (Air=1)	> 1
Evaporation Rate	Not available.	Odour Threshold	Not applicable.
Viscosity	Not available.	Partition Coefficient: n-octanol/water	Not available.
Flash Point	>160°C / >320°F Closed cup.	Auto-Ignition Temperature	>250°C/>482°F
Flammable Limits - Lower	Not available.	Explosion Properties	Not applicable.
Oxidising Properties	Not applicable.	Initial boiling point and boiling range	>240°C/>464°F @ 760 mm Hg
Relative density	2.25-2.35 @ 20°C/68°F		

### Other Information

This section contains typical values for Health, Safety and Environmental guidance only and is not intended to represent a technical specification for the product.

## 10. Stability and reactivity

### Reactivity

There are no known reactivity hazards associated with this product.

### Chemical Stability

Stable under recommended storage and handling conditions (see Section 7).

### Conditions to Avoid

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

### Incompatible materials

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

### Hazardous Decomposition Products

Does not decompose when used and stored as recommended.

### Possibility of hazardous reactions

No hazardous reactions expected when stored and handled as recommended.

## 11. Toxicological Information

### Toxicology Information

Route of exposure: Oral Skin and/or eye contact

Medical considerations: Skin contact constitutes a pronounced hazard. Persons with a history of skin sensitisation problems should only be employed in processes in which this product is used under appropriate medical supervision.

### Acute Toxicity - Oral

Notes (oral LD50): Based on available data the classification criteria are not met.

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Toxicological information on ingredients:  
N,N-DIALKYLAMINO-DIPHENYLMETHANE  
Acute toxicity oral (LD50 mg/kg): 1,340.0  
Species: Rat

### Acute Toxicity - Inhalation

Notes (inhalation LC50): Based on available data the classification criteria are not met.

### Acute Toxicity - Dermal

Notes (dermal LD50): Based on available data the classification criteria are not met.

### Skin corrosion/irritation

Animal data: Based on available data the classification criteria are not met.

### Serious eye damage/irritation

Conclusive data but not sufficient for classification.

### Respiratory sensitisation

Based on available data the classification criteria are not met.

### Skin Sensitisation

May cause skin sensitisation or allergic reactions in sensitive individuals.

### Germ cell mutagenicity

Genotoxicity - in vitro: Based on available data the classification criteria are not met.

Genotoxicity - in vivo: Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

IARC carcinogenicity: Not listed.

NTP carcinogenicity: Not listed.

### Reproductive Toxicity

Reproductive toxicity - fertility: Based on available data the classification criteria are not met.

Reproductive toxicity - development: Based on available data the classification criteria are not met.

### STOT-single exposure

Based on available data the classification criteria are not met.

### STOT-repeated exposure

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Target organs: Liver

### Aspiration Hazard

Based on available data the classification criteria are not met.

## 12. Ecological information

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### Ecotoxicity

There is no data on the product itself. The following information is provided on the basis of the individual component data available.

Toxicity: Based on the individual component data, the product is expected to have experimental LC50/EC50/IC50 values between 1 and 10 mg/l in most sensitive species.

### Persistence and degradability

This product is not expected to be readily biodegradable.

### Mobility

Mobility in soil:

There is no data available on the product itself.

### Bioaccumulative Potential

Based on the individual component data, the product is expected to bioaccumulate.

Partition coefficient: Not available.

## Other Adverse Effects

None known.

## 13. Disposal considerations

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### Waste Disposal

Disposal methods: Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Controlled wastes include non-hazardous industrial and hazardous chemical wastes. All controlled wastes should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. In addition, hazardous chemical wastes should be disposed of in accordance with the Hazardous Waste Regulations. When in doubt, using information provided in this safety data sheet, advice should be obtained from the National regulating agency whether the Hazardous Waste Regulations apply. Refer to information sources listed in Section 16. COMPONENT DISPOSAL TRANSIT PACKAGING: shrink or stretch wrap, boxes and fittings that have not been contaminated with product should be re-used or recycled. UNREACTED PRODUCT and empty uncleaned containers should be disposed of as non-hazardous waste. REACTED PRODUCT, contaminated mixing boards, spatulas, applicators, brushes, nominally empty containers and mixing bowls- once fully cured- should be disposed of as non-hazardous waste.

Waste class: . The LoW code quoted in this section is a general entry. LoW codes should be assigned based on the end use of the product. Where a more specific code is available it should be used in preference to the code given above. Where in doubt refer to the List of Wastes, your local licensed waste contractor or the National regulating agency. Refer to information sources listed in Section 16.

## 14. Transport information

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### U.N. Number

3077

### UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(containing N,N-dialkylamino-diphenylmethane mixture)

### Transport hazard class(es)

9

### Packing Group

III

### Hazchem Code

2Z

### IERG Number

47

### UN Number (Air Transport, ICAO)

3077

### IATA/ICAO Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(containing N,N-dialkylamino-diphenylmethane mixture)

### IATA/ICAO Hazard Class

9

### IATA/ICAO Packing Group

III

### IMDG UN No

3077

### IMDG Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(containing N,N-dialkylamino-diphenylmethane mixture)

### IMDG Hazard Class

9

### IMDG Pack. Group

III

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### Special Precautions for User

Not applicable.

### Environmental Hazards

Environmentally hazardous substance/marine pollutant:

Yes Labelling requirements will vary with hazardous net quantity. Please refer to the current transport regulations.

### Other Information

General: Labelling and packaging requirements may vary with pack and load size. Please refer to the current transport regulations.

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

UN number:

UN No. (ADG): 3077

UN No. (IMDG): 3077

UN No. (ICAO): 3077

UN proper shipping name:

Proper shipping name (ADG): Environmentally hazardous substance, solid, n.o.s. (containing N,N-dialkylamino-diphenylmethane mixture)

Proper shipping name (IMDG): Environmentally hazardous substance, solid, n.o.s. (containing N,N-dialkylamino-diphenylmethane mixture)

Proper shipping name (ICAO): Environmentally hazardous substance, solid, n.o.s. (containing N,N-dialkylamino-diphenylmethane mixture)

Transport hazard class(es):

ADG class: 9

IMDG class: 9

ICAO class/division: 9

Packing group:

ADG packing group: III

IMDG packing group: III

ICAO packing group: III

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

## 15. Regulatory information

### Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

National regulations:

GROUP STANDARD: Not applicable.

HSNO APPROVAL NUMBER: Not applicable.

Inventories:

New Zealand - NZIOC:

All the ingredients are listed or exempt.

### Australia (AICS)

All the ingredients are listed or exempt.

## 16. Other Information

### User Codes

User Title Label	User Codes
Wis Numbers	00750278



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### Revisions Highlighted

REVISION. This safety data sheet has been revised in the following Section(s): 6, 15, Please observe the REVISION DATE. Should you be reading a safety data sheet that is more than 24 months old or have concerns over its validity, please contact your local Belzona consultant or Belzona direct (sds@belzona.com) and the most current information will be sent to you.

### Other Information

Supplier: Reptech Corporation Ltd  
503 Great South Road  
Penrose, Auckland 1061  
NEW ZEALAND  
0800 (REPTECH) 737832

Manufacturer: Belzona Polymerics Limited  
Claro Road, Harrogate  
HG1 4DS  
United Kingdom  
+44 1423 567641  
sds@belzona.com

Training advice: For further information please contact your supplier, Belzona consultant or Belzona direct.

Revision: 2.7

SDS No.: 10588

SDS status: English. Approved.

Hazard statements in full:

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs (Liver) through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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## END OF SDS

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